

SEQ ID NO: 1

1 LNAGITPVVR EYGSLGCSGD LAPLSHCALV LMGEGEA

SEQ ID NO: 2

1 GMLNAGITPV VREYGSLGCS GDLAPLSHCA LVLMGEGEAT

SEQ ID NO: 3

1 MASAPQITLG LSGATADDVI AVARHEARIS ISPQVLEELA SVRAHIDALA

51 SADTPVYGIS TGFGALATRH IA PEDRAKLO RSLIRSHAAG MGE PVEREVV

101 RALMFLRAKT LASGRGVPRP VVLETMVGML NAGITPVVRE YGSLGCSGDL

151 APLSHCALVL MGE GEATDAH GDIRPVPELF AEAGLTPVEL AEKEGLALVN

201 GTDGMLGQLI MALADLDELL DIADATAAMS VEAQLGTDQV FRAELHEPLR

251 PHPGQGRSAQ NMFAFLADSP IVASHREGDG RVQDAYS

SEQ ID NO: 4

1 MASAPQITLG LSGATADDVI AVARHEARIS ISPQVLEELA SVRAHIDALA

51 SADTPVYGIS TGFGALATRH IA PEDRAKLO RSLIRSHAAG MGE PVEREVV

101 RALMFLRAKT LASGRGVPRP VVLETMVGML NAGITPVVRE YGSLGCSGDL

151 APLSHCALVL MGE GEATDAH GDIRPVPELF AEAGLTPVEL AEKEGLALVN

201 GTDGMLGQLI MALADLDELL DIADATAAMS VEAQLGTDQV FRAELHEPLR

251 PHPGQGRSAQ NMFAFLADSP IVASHREGDG RVQDAYSLRC SPQVTGAARD

301 TIAHARLVAT RELAAAIIDNP VVLPSGEVTS NGNFHGAPVA YVLDFLAIAV

351 ADLGSIAERR TDRMLDPARS RDLP AFLADD PGVD SGMMIA QYTQAGLVAE

401 NKRLA

SEQ ID NO: 5

1 MASAPQITLG LSGATADDVI AVARHEARIS ISPQVLEELA SVRAHIDALA
51 SADTPVYGIS TGFGALATRH IA PEDRAKLQ RSLIRSHAAG MGE PVEREVV
101 RALMFLRAKT LASGRTGVRP VVLETMVGML NAGITPVVRE YGSLGCSGDL
151 APLSHCALVL MGE GEATDAH GDIRPVP ELF AEAGLTPVEL AEKEGLALVN
201 GTDGMLGQLI MALADLDELL DIADATAAMS VEAQLGTDQV FRAELHEPLR
251 PHPGQGRSAQ NMFAFLADSP IVASHREGDG RVQDAYSLRC SPQVTGAARD
301 TIAHARLVAT RELAAAIIDNP VVLPSGEVTS NGNFHGAPVA YVLDFLAIAV
351 ADLGSIAERR TDRMLDPARS RDLP AFLADD PGVD SGMMIA QYTQAGLVAE
401 NKRLAVPASV DSIPSSAMQE DHVSLGWHAA RKLRTSVANL RRILAVEMLI
451 AGRALDLRAP LKPGPATGAV LEVLR SKVAG PGQDRFLSAE LEAAY DLLAN
501 GSVHKALEAH LPA

SEQ ID NO: 6

1 XXXXXXXXXXXXG XSGXTAXDVX AVARHXARXX XSXXXXEXLA XXRXXXDALA
51 XXXXPVYGSX TGFGALAXRH IXXEXRAXLQ RXXXRSHAAG MGXXVEREVV
101 RALMFLRXKT XASGXTGVRP XVXXTMX**GXL** NAGITPVVXE YGSLGCSGDL
151 APLSHCALXL MGEGEAT**XXX** GXXRPXXELX AXXGXXPVEL XEKEGLALXN
201 GTDGMLGX LX MALADLXXLX XXADXTAAXS XEAXLGTDXV XXXELHXXXR
251 PHPGQGXSAX NMXXXLAXSX XXXXHXXXX RVQDAYSXRC XPQVXGAXRD
301 TXXHAXLVAX RELAXXDNP VVLPXGVXS NGNFHGAPVA YVLDFLAIIXX
351 ADLGSIKERR TDRXLDXXRS XXLPXFLADD XGVDSGXMIA QYTQAXLVXE
401 XKRLAVPASX DSIPSSAMQE DHVSXGWXAA RKLRTXVXNL XRIXAVEXXX
451 AXRAXXLRAX XXLXPXPAXX AVXXXLRXXX AXGPGXDRFL XXXLXAAXXX
501 XXXGXXXXAX E

SEQ ID NO: 7
1 ATGGCTTCCG CTCCTCAAAT AACACTTGGC CTAAGTGGCG CAACCGCAGA
51 CGACGTTATC GCCGTTGCC CCGCACGAAGC CCGCATCAGC ATTCTCCGC
101 AAGTACTTGA GGAACCTGGCT TCCGTCCGAG CACATATCGA TGCACTAGCA
151 TCCGCTGATA CCCCGGTTA TGGCATTCA ACCGGTTTG GCGCGTTGGC
201 AACCCGCCAC ATCGCACCCG AGGATCGCGC CAAGCTGCAG CGCTCCCTCA
251 TCCGTTCCA CGCTGCTGGC ATGGGTGAAC CGGTGGAGCG CGAAGTGGTC
301 CGCGCATTGA TGTTCTTGC G TGCAAAGACC CTGGCTTCCG GCCGCACGGG
351 CGTTCGCCCG GTTGTCTTG AGACCATGGT CGGCATGCTC AATGCAGGCA
401 TCACTCCGGT AGTCCCGCAA TACGGTTCAC TGGGCTGCTC CGGTGACTTG
451 GCTCCGCTGT CGCACTGCGC ATTAGTGCTG ATGGGCGAGG GCGAAGCCAC
501 CGATGCCAC GGCGACATCC GCCCGGTACC GGAACGTTC GCGGAGGCCG
551 GATTGACCCC TGTCGAAC TG GCAGAAAAGG AAGGCCTGGC TCTGGTCAAC
601 GGCACCGACG GCATGCTCGG CCAGCTGATC ATGGCATTGG CGGACCTCGA
651 TGAGCTGCTG GACATCGCCG ATGCCACCGC CGCCATGAGC GTTGAAGCCC
701 AGCTGGGCAC CGATCAGGTA TTCCGCGCAG AACTGCACGA ACCACTGCGC
751 CCGCACCCAG GCCAGGGCCG CAGCGCCAG AACATGTTCG CCTTCCTGGC
801 CGACTCGCCA ATTGTTGCCT CGCATCGCGA GGGAGACGGC CGAGTGCAGG
851 ATGCCTACTC GCTGCGTTGC TCGCCGCAGG TCACCGGGCGC CGCCCGCGAC
901 ACCATTGCTC ATGCCCGCCT GGTCGCCACC CGCGAACTGG CTGCGGCCAT

951 TGACAACCCT GTGGTGCTGC CCAGCGCGA AGTGACTTCC AACGGCAACT

1001 TCCACGGCGC ACCGGTAGCC TACGTGCTGG ACTTCCTTGC CATGCCGTG

1051 GCCGACCTCG GCTCTATCGC CGAGCGCCGC ACCGACCGCA TGCTCGACCC

1101 AGCCCGCTCC CGCGACCTGC CGGCATTCTT GGCCGACGAT CCGGGTGTGG

1151 ACTCGGGCAT GATGATGCC CAGTACACCC AGGCCGGCTT GGTGGCAGAA

1201 AACAAAGCGGC TGGCAGTTCC TGCCAGCGTT GACTCCATCC CATCCTCGGC

1251 CATGCAGGAA GACCACGTTT CCCTGGGCTG GCATGCGGCG CGCAAGCTGC

1301 GCACCTCGGT AGCGAACCTC CGCCGCATTC TCGCAGTGGAA AATGCTGATT

1351 GCCGGCCGCG CCCTGGACCT GCGGGCCCCA TTGAAGCCTG GTCCAGCGAC

1401 CGGTGCGGTG CTTGAAGTAT TGCGCAGCAA GGTTGCAGGC CCCGGCCAGG

1451 ACCGCTTCCT TTCCGCAGAA CTGGAAGCAG CCTATGACCT GCTGGCCAAT

1501 GGCTCGGTGC ATAAGGCCCT CGAAGCTCAC CTGCCTGCAT AA

SEQ ID NO: 8

1 MASAPQITLG LSGATADDVI AVARHEARIS ISPQVLEELA SVRAHIDALA

51 SADTPVYGIS TGFGALATRH IAPEDRAKLQ RSLIRSHAAG MGEPVREVV

101 RALMFLRAKT LASGRSRPV VLETMVGMLN AGITPVVREY GSLGCSGDLA

151 PLSHCALVLM GEGEATDAHG DIRPVPBELFA EAGLTPVELA EKEGLALVNG

201 TDGMLGQLIM ALADLDELLD IADATAAMSV EAQLGTDQVF RAELHEPLRP

251 HPGQGRSAQN MFAFLADSPI VASHREGDGR VQDAYS

SEQ ID NO:9

1 MASAPQITLG LSGATADDVI AVARHEARIS ISPQVLEELA SVRAHIDALA

51 SADTPVYGIS TGFGALATRH IAPEDRAKLO RSLIRSHAAG MGEPVREVV

101 RALMFLRAKT LASGRSRPV VLETMVGMLN AGITPVVREY GSLGCSGDLA

151 PLSHCALVLM GEGEATDAHG DIRPVPBELFA EAGLTPVELA EKEGLALVNG

201 TDGMLGQLIM ALADLDELLD IADATAAMSV EAQLGTDQVF RAELHEPLRP

251 HPGQGRSAQN MFAFLADSPI VASHREGDGR VQDAYSLRCS PQVTGAARDT

301 IAHARLVATR ELAAAIIDNPV VLPSGEVTSN GNFHGAPVAY VLDFLAIAVA

351 DLGSIAERRT DRMLDPARSR DLPAFLADDP GVDSGMMIAQ YTQAGLVAEN

401 KRLA

SEQ ID NO:10

1 MASAPQITLG LSGATADDVI AVARHEARIS ISPQVLEELA SVRAHIDALA

51 SADTPVYGIS TGFGALATRH IAPEDRAKLQ RSLIRSHAAG MGEPVREVV

101 RALMFLRAKT LASGRSVRPV VLETMVGMLN AGITPVVREY GSLGCSGDLA

151 PLSHCALVLM GEGEATDAHG DIRPVPELFA EAGLTPVELA EKEGLALVNG

201 TDGMLGQLIM ALADLDELLD IADATAAMSV EAQLGTDQVF RAELHEPLRP

251 HPGQGRSAQN MFAFLADSPI VASHREGDGR VQDAYSLRCS PQVTGAARDT

301 IAHARILVATR ELAAAIDNPV VLPSGEVTSN GNFHGAPVAY VLDFLAIAVA

351 DLGSIAERRT DRMLDPARSR DLPAFLADDP GVDSGMMIAQ YTQAGLVAEN

401 KRLAVPAVDS IPSSAMQEDH VSLGWHAARK LPTSVANLRR ILAVEMLIAG

451 RALDLRAPLK PGPATGAVLE VLRSKVAGPG QDRFLSAELE AAYDLLANGS

501 VHKA
LEAHLP E

SEQ ID NO: 11

1 XXXXXXXXXG XSGXTAXDVX AVARHXARXX XSXXXXEXLA XXRXXXDALA

51 XXXXPVYGSX TGFGALAXRH IXXEXRAXLQ RXXXRSHAAG MGXXVEREVV

101 RALMFLRXKT XASGXX-VRP XVXXTMX**G**XI NAGITPVVXE YGSLGCSGDL

151 APLSHCALVL MGEGEA**T**XXX GXXRPXXELX AXXGXXPVEL XEKEGLALXN

201 GTDGMLGXlx MALADLXXLX XXADXTAAXS XEAXLGTDXV XXXELHXXXR

251 PHPGQGXSAX NMXXXLAX-S XXXXXHXXXX X---RVQDAY SXRCXPQVXG

301 AXRDTXXHAX LVAXRELAXX XDNPVVLPXG -XVXSNGNFH GAPVAYVLDF

351 LAIXXADLGS IXERRTDRXL DXXRSXXLPX FLADDXGVDS GXMIAQYTQA

401 XLVXEXKRLA VPA-XDSIPS SAMQEDHVSX GWXAARKLXT XVXNLXRIXA

451 VEXXXAXRAX XLRAX-XXXX PAXXAVXXXL RXXXA-GPGQ DRFLXXXLXA

501 AXXXXXXX-- -X-XXXXXEX XXXX

SEQ ID NO: 12

1 ATGGCTTCCG CTCCTCAAAT AACACTTGGC CTAAGTGGCG CAACCGCAGA

51 CGACGTTATC GCCGTTGCC CCGCACGAAGC CCGCATCAGC ATTTCTCCGC

101 AAGTACTTGA GGAACCTGGCT TCCGTCCGAG CACATATCGA TGCACTAGCA

151 TCCGCTGATA CCCCGGTTA TGGCATTCA ACCGGCTTG GCGCGTTGGC

201 AACCCGCCAC ATCGCACCCG AGGATCGCGC CAAGCTGCAG CGCTCCCTCA

251 TCCGTTCCA CGCTGCTGGC ATGGGTGAAC CGGTGGAGCG CGAAGTGGTC

301 CGCGCATTGA TGTTCTTGCG TGCAAAGACC CTGGCTTCCG GCCGCAGCGT

351 TCGCCCGGTT GTCCCTGAGA CCATGGTCGG CATGCTCAAT GCAGGCATCA

401 CTCCGGTAGT CCGCGAATAC GGTTCACTGG GCTGCTCCGG TGACTTGGCT

451 CCGCTGTCGC ACTGCGCATT AGTGCTGATG GGCGAGGGCG AAGCCACCGA

501 TGCCCCACGGC GACATCCGCC CGGTACCGGA ACTGTTGCC GAGGCCGGAT

551 TGACCCCTGT CGAACTGGCA GAAAAGGAAG GCCTGGCTCT GGTCAACGGC

601 ACCGACGGCA TGCTCGGCCA GCTGATCATG GCATTGGCGG ACCTCGATGA

651 GCTGCTGGAC ATCGCCGATG CCACCGCCGC CATGAGCGTT

GAAGCCCCAGC

701 TGGGCACCGA TCAGGTATTC CGCGCAGAAC TGCACGAACC ACTGCGCCCG

751 CACCCAGGCC AGGGCCGCAG CGCCCAGAAC ATGTTGCCT TCCTGGCCGA

801 CTCGCCAATT GTTGCCTCGC ATCGCGAGGG AGACGGCCGA GTGCAGGATG

851 CCTACTCGCT GCGTTGCTCG CCGCAGGTCA CCGGCGCCGC CCGCGACACC

901 ATTGCTCATG CCCGCCTGGT CGCCACCCGC GAACTGGCTG CGGCCATTGA

951 CAACCCTGTG GTGCTGCCA GC GGCGAAGT GACTTCAAAC GGCAACTTCC

1001 ACGGCGCACCC GGTAGCCTAC GTGCTGGACT TCCTTGCCAT CGCCGTGGCC

1051 GACCTCGGCT CTATGCCGA GCGCCGCACC GACCGCATGC TCGACCCAGC

1101 CCGCTCCCGC GACCTGCCGG CATTCTGGC CGACGATCCG GGTGTGGACT

1151 CGGGCATGAT GATCGCCAG TACACTCAGG CCGGCTTGGT GGCAGAAAAC

1201 AAGCGGCTGG CAGTTCCCTGC AGTTGACTCC ATCCCATCCT CGGCCATGCA

1251 GGAAGACCAC GTTTCCCTGG GCTGGCATGC GGCGCGCAAG CTGCCGACCT

1301 CGGTAGCGAA CCTCCGCCGC ATTCTCGCAG TGGAAATGCT GATTGCCGGC

1351 CGCGCCCTGG ACCTGCAGGGC CCCATTGAAG CCTGGTCCAG

CGACCCGGTGC

1401 GGTGCTTGAA GTATTGCGCA GCAAGGTTGC AGGCCCGGC CAGGACCGCT

1451 TCCTTTCCGC AGAACTGGAA GCAGGCCATG ACCTGCTGGC CAATGGCTCG

1501 GTGCATAAGG CCCTCGAAGC TCACCTGCCT GAATAA